VBA for Excel Advanced Workshop	*2 Days 09:30 – 16:30*

Workshop Aims:

This workshop aims to give the delegate the ability to write efficient Microsoft Excel macros in the Visual Basic for Applications (VBA) programming language. Efficiency & speed is covered particularly in respect to using Excel to model financial data and events.

Workshop Program:

TOPIC
THE VBA PROGRAMMING LANGUAGE • How the VBA Programming language works • Limitations of VBA • Measuring Performance • High performance alternatives **EFFICIENT VBA PROGRAMMING** • Program design • Procedures & Functions • Built-in intrinsic functions • Decision Statements • Loops **STATISTICAL ANALYSIS IN VBA** • Excel worksheet functions • Write your own vs Excel functions • How random is random? - Random number generators **MODELLING IN VBA** • Problems with modelling in VBA • Monte-Carlo simulations • Data storage **AUTOMATING EXCEL** • What can I automate? • Simple automation • Pivot Tables **QUESTION & ANSWER SESSION** During this session delegates will have the opportunity to discuss their own issues & the trainer will, to the best of his ability, attempt to resolve any specific problems. Please note, however that the length of this session is dependant on the rest of the workshop & it may be fairly short. Also, the trainer will not know delegate's own specific code and requirements and thus he can only make general recommendations or point out specific issues that can be seen from the code.

Target Audience:

This workshop is intended for analysts who already have a good knowledge of the internals of Microsoft Excel & who need to be able to leverage the power of the Visual Basic for Applications programming language to create fast efficient alternatives and extensions to the existing Excel macro capabilities.

Assumed Knowledge:

Delegates will be assumed to have a working knowledge of the Microsoft Excel application and knowledge of the VBA programming language.

Requirements:

Delegates do not *need* to have a PC available for this course as much of the content will be demonstrated by the trainer and a CD will be provided containing the examples used. However, if the delegate has any particular examples that they would like help with or wishes to try some of the examples they may, of course, bring a PC or laptop computer.